

### Amendments to the Claims

Claim 1 (currently amended): ~~Automated~~ An automated chromatography system for the purification of a proteins, comprising a plurality of chromatography columns, a plurality of computer-controlled valves, a pump, at least one loop for the storage of fluid, a detector able to produce an output signal representing the composition of a fluid passing through the detector, a computer provided with and adapted to run software for controlling said valves, pump and detector, wherein said software is able to process the output signal of said detector to identify two signal parameters.

Claim 2 (currently amended): ~~Automated chromatography system in accordance with claim 1 characterised in that~~ The automated chromatography system of claim 1, wherein said two signal parameters are the signal level and the rate of change of the signal level.

Claim 3 (currently amended): ~~Automated chromatography system in accordance with claim 1 or claim 2 characterised in that~~ The automated chromatography system of claim 1, wherein said software is adapted to perform predetermined actions when predetermined conditions for said two signal parameters are fulfilled at the same time.

Claim 4 (currently amended): ~~Automated chromatography system in accordance with claim 1 or claim 2 characterised in that~~ The automated chromatography system of claim 1, wherein said software is adapted to perform predetermined actions when predetermined conditions for one of said two signal parameters is fulfilled.

Claim 5 (currently amended): ~~Automated chromatography system in accordance with claim 3 or claim 4 characterised in that~~ The automated chromatography system of claim 3, wherein said predetermined conditions for said two signal parameters are default conditions or operator selected conditions.

Claim 6 (currently amended): ~~Software for~~ A computer readable media comprising program code, the program code capable of being executed by a microprocessor, the program code comprising a method for controlling an automated chromatography system, the method comprising receiving ~~characterised in that it is adapted is able to receive an output signal from a detector and to process~~ processing the output signal of said detector to identify two signal parameters.

Claim 7 (currently amended): ~~Software in accordance with claim 6 characterised in that said software~~ The computer readable media of claim 6, wherein said computer readable media is adapted to identify said signal level and the rate of change of said signal level.

Claim 8 (currently amended): ~~Software in accordance with claim 6 or claim 7 characterised in that said software~~ The computer readable media of claim 6, wherein said computer readable media is adapted to perform predetermined actions when predetermined conditions for said two signal parameters are fulfilled at the same time.

Claim 9 (currently amended): ~~Software in accordance with claim 6 or claim 7 characterised in that said software~~ The computer readable media of claim 6, wherein

said computer readable media is adapted to perform predetermined actions when predetermined conditions for one of said two signal parameters is fulfilled.

Claim 10 (currently amended): ~~Software in accordance with claim 8 or claim 9 characterised in that said software~~ The computer readable media of claim 8, wherein said computer readable media is adapted to allow an operator to select default predetermined conditions for said two signal parameters or to input operator-selected predetermined conditions.

Claim 11 (new): The computer readable media of claim 9, wherein said computer readable media is adapted to allow an operator to select default predetermined conditions for said two signal parameters or to input operator-selected predetermined conditions.

Claim 12 (new): The automated chromatography system of claim 4, wherein said predetermined conditions for said two signal parameters are default conditions or operator selected conditions.